



26A7-GT

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TWIN A-F BEAM POWER AMPLIFIERGENERAL DATA**Electrical:**

Heater for Coated Unipotential Cathode:

Voltage 26.5 a-c or d-c volts
 Current 0.6 amp.

Direct Interelectrode Capacitances—Each Unit (Approx.):^o

Grid to Plate 1.2 μmf
 Input 16 μmf
 Output 13 μmf

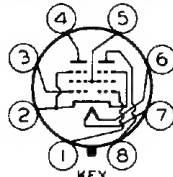
Physical:

Mounting Position Any
 Maximum Overall Length 3-13/16"
 Maximum Seated Length 3-1/4"
 Maximum Diameter 1-5/16"
 Bulb T-9
 Base Intermediate Shell Octal 8-Pin
 Basing Designation for BOTTOM VIEW 8BU

Pin 1—Grid of
 Unit No.1

Pin 2—Cathode,
 Suppressor
 of Units
 No.1 & No.2

Pin 3—Grid of
 Unit No.2



Pin 4—Plate of
 Unit No.2

Pin 5—Screen
 of Units
 No.1 & No.2

Pin 6—Heater

Pin 7—Heater

Pin 8—Plate of
 Unit No.1

CLASS A₁ AMPLIFIER — Each Unit**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE 50 max. volts
 SCREEN VOLTAGE 50 max. volts
 PLATE DISSIPATION 2 max. watts
 SCREEN DISSIPATION 0.5 max. watt
 D-C HEATER-CATHODE POTENTIAL 90 max. volts

Typical Operation:

Plate Voltage 26.5 . . . volts
 Screen Voltage 26.5 . . . volts
 Grid Voltage* -4.5 . . . volts
 Peak A-F Grid Voltage 4.5 . . . volts
 Zero-Signal Plate Current 20 . . . ma.
 Max.—Signal Plate Current 20.5 . . . ma.
 Zero-Signal Screen Current 2 . . . ma.
 Max.—Signal Screen Current 5.5 . . . ma.
 Plate Resistance 2500 approx. ohms
 Transconductance 5500 . . . μmhos
 Load Resistance 1500 . . . ohms
 Total Harmonic Distortion 7 . . . %
 Max.—Signal Power Output 200 . . . mw

*^o: See next page.

MAR. 30, 1945

RCA VICTOR DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

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TWIN A-F BEAM POWER AMPLIFIER

(continued from preceding page)

PUSH-PULL CLASS AB₁ AMPLIFIER - Both Units**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE	50 max.	volts
SCREEN VOLTAGE	50 max.	volts
PLATE DISSIPATION (per unit)	2 max.	watts
SCREEN DISSIPATION (per unit)	0.5 max.	watt
D-C HEATER-CATHODE POTENTIAL	90 max.	volts

Typical Operation -- Both Units:

Plate Voltage	26.5	volts
Screen Voltage	26.5	volts
Grid Voltage*	-7	volts
Peak A-F Grid-to-Grid Voltage	14	volts
Zero-Signal Plate Current	19	ma.
Max.-Signal Plate Current	30	ma.
Zero-Signal Screen Current	2	approx. ma.
Max.-Signal Screen Current	8.5	approx. ma.
Effective Load Resistance (plate-to-plate)	2500	ohms
Total Harmonic Distortion	5	%
Max.-Signal Power Output	500	mw

° With no external shield.

* Under maximum rated conditions, the d-c resistance in each grid circuit may be as high as 0.5 megohm with cathode bias and 0.1 megohm with fixed bias. When the plate voltage and the screen voltage do not exceed a maximum design value of 26.5 volts, the d-c resistance in the grid circuit may be as high as 0.5 megohm with grid-resistor bias.

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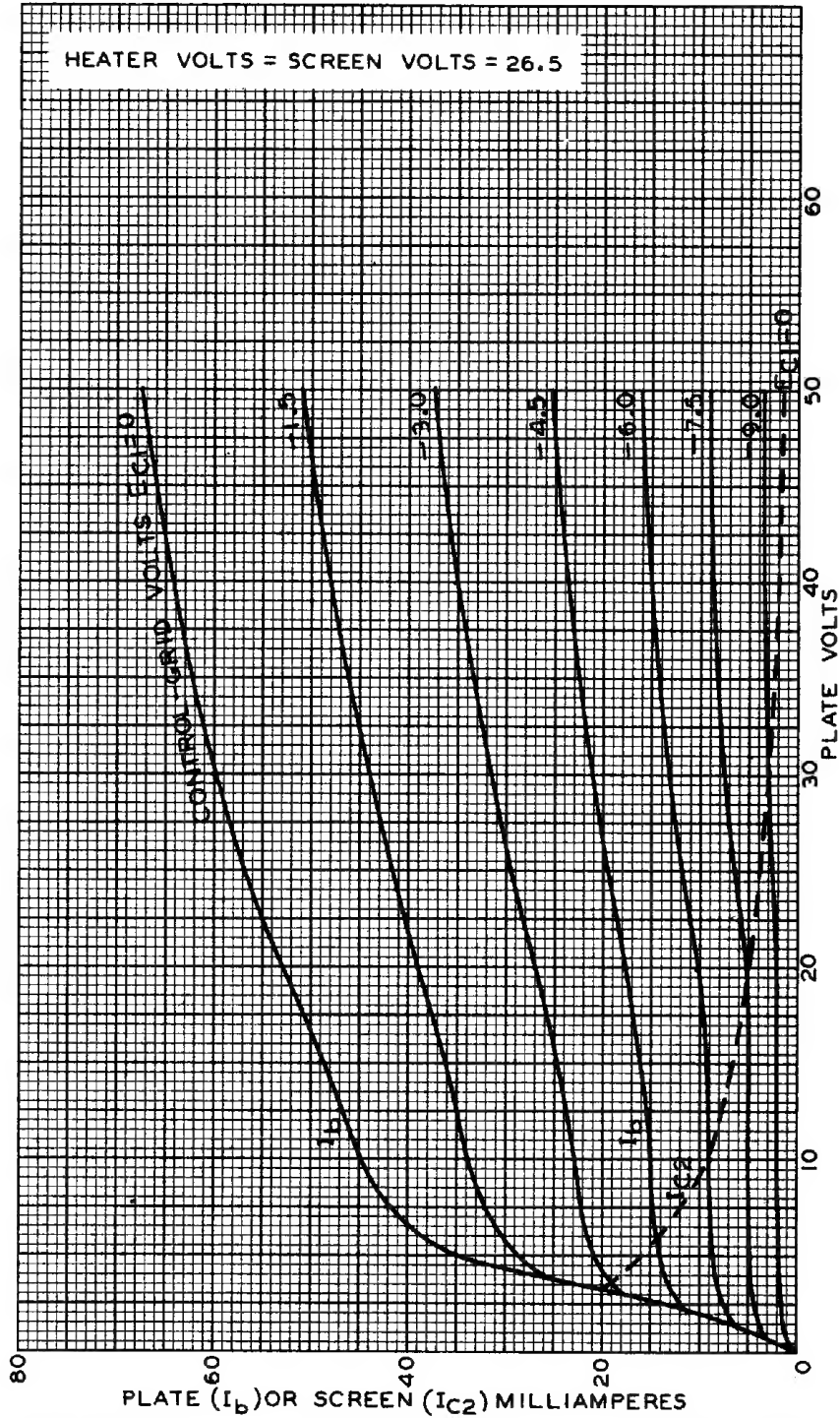
TENTATIVE DATA



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AVERAGE PLATE CHARACTERISTICS
EACH UNIT - PENTODE CONNECTION

HEATER VOLTS = SCREEN VOLTS = 26.5



MAR. 23, 1945

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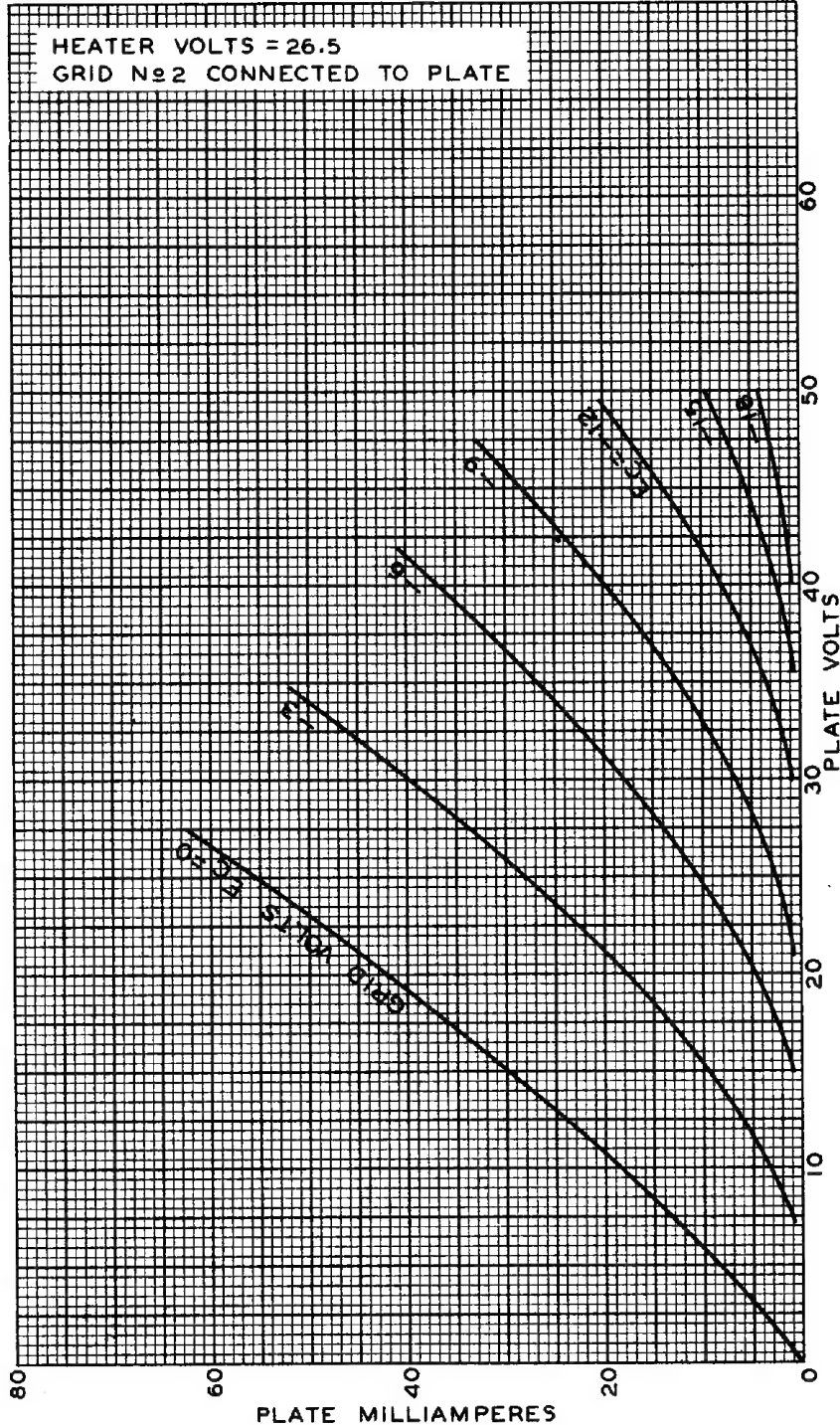
92CM-6509

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AVERAGE PLATE CHARACTERISTICS
EACH UNIT - TRIODE CONNECTION



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92CM-6510

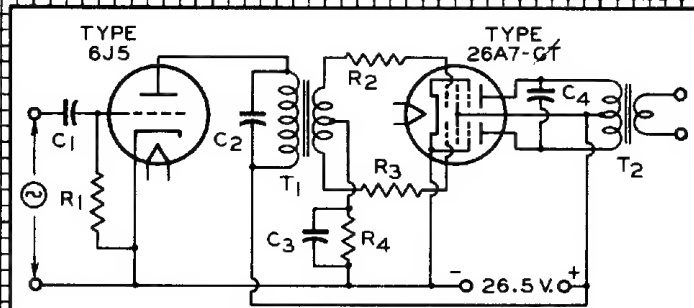


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OPERATION CHARACTERISTICS PUSH-PULL CIRCUIT

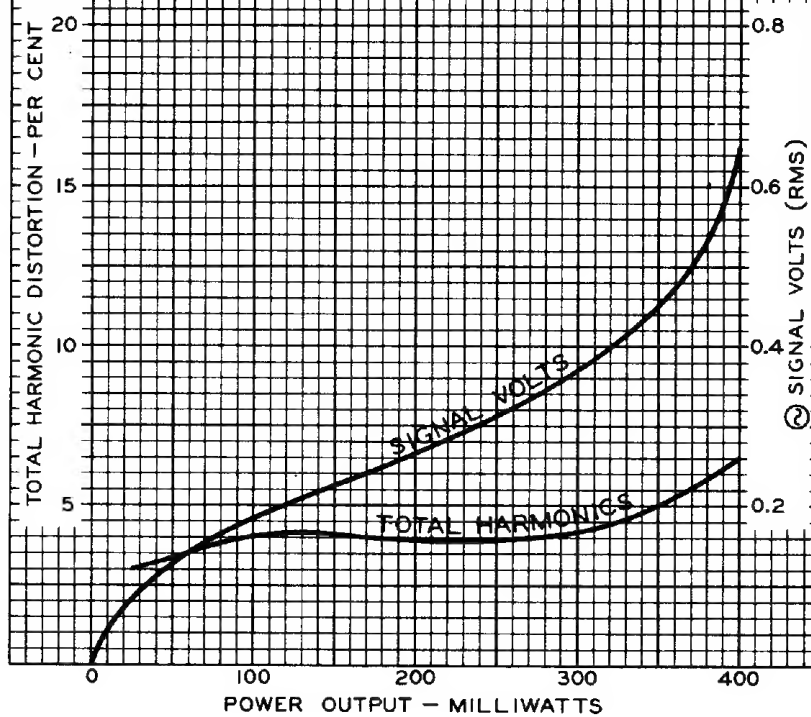
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HEATER VOLTS = 26.5



$C_1, C_4 = 0.01 \mu f$
 $C_2 = 0.002 \mu f$
 $C_3 = 1.0 \mu f$
 $R_1 = 2.2 \text{ MEGOHMS}$
 $R_2, R_3 = 100 \text{ OHMS}$
 $R_4 = 0.2 \text{ MEGOHM}$

T_1 = INTERSTAGE COUPLING
TRANSFORMER:
TURNS RATIO (PRIMARY
TO $\frac{1}{2}$ SECONDARY) = 3:1
 T_2 = OUTPUT TRANSFORMER:
PLATE-TO-PLATE LOAD,
2000 OHMS



MAR. 21, 1945

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92CM-6579